

Enclosure V

Shree Manibhai Virani and Smt. Navalben Virani Science College, Rajkot
(Autonomous)
Affiliated to Saurashtra University, Rajkot

Department of Biotechnology
B. Sc. BIOTECHNOLOGY

For Students Admitted from A.Y. 2016-2017 & Onwards

SEC – III

Value Added Course

16UBTVA01	WEALTH FROM WASTE	Duration 40 hrs (1 credit)	Any semester between II- V
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Learning Outcomes:

1. To create sustainable orderliness, enhanced ecological balance, beauty, productivity, dignity in the society/nature
2. To explore market opportunities for the recovered and recycling materials
3. To experience developing of a business model

Unit 1: Waste Material: Collection and Treatment (06 hrs)

- Survey of available/generated waste
- Collection of waste materials: Husk leaves of corn, used ear of wheat, maize & other cereals
- Dyeing of waste material with natural colors
- Hardening of material: drying and ironing

Unit 2: Use of treated waste material: Flower preparation (10 hrs)

- Procedure of flower preparation
- Use of different materials
- Shapes and types of flowers

Unit 3: Flower arrangement for different purposes (10 hrs)

- Procedure for preparation of different flower
- Types and uses of different flower arrangements
- Small and large handy bouquet, table bouquet
- Photo frames, Flower vase, Wall Hangings
- Garlands and Ornaments

Unit 4: Marketing (08hrs)

- Need analysis, pricing and basic marketing strategies
- Preparation and designing of price list
- Methods of advertisement
- Exhibition cum sale
- Survey for the need of Product and its supply to the market

Unit 5: Project: Innovative Creation through Reuse and Recycling of Waste (06hrs)